

[0039] Expressions such as “at least one of,” when preceding a list of elements, modify the entire list of elements and do not modify the individual elements of the list.

[0040] FIG. 1 is a diagram of an object providing system according to an exemplary embodiment.

[0041] As illustrated in FIG. 1, the object providing system may include a first device 100, a second device 200, and a management server 300. However, not all shown elements are necessary elements. That is, the object providing system may be embodied with more or less elements than the shown elements. For example, in other exemplary embodiments, the management server 300 may be or may not be included in the object providing system. First, the exemplary embodiment in which the object providing system includes the management server 300 will now be described, and then another exemplary embodiment in which the object providing system does not include the management server 300 will be described later with reference to FIGS. 6 through 10.

[0042] The first device 100 may be a device that displays an object related to content reproduced by an external device (e.g., a public device). Hereinafter, ‘the object related to content’ may be expressed as a ‘recommendation item related to content’. In the present exemplary embodiment, the object related to content may include link information for receiving information related to the content. Here, ‘the information related to the content’ may be expressed as ‘the information about the content’.

[0043] The first device 100 may be a personal mobile device. The first device 100 may be variously embodied. For example, throughout the specification, the first device 100 may be, but is not limited to, a mobile phone, a smartphone, a laptop computer, a tablet PC, an electronic book terminal, a terminal for digital broadcast, a personal digital assistant (PDA), a portable multimedia player (PMP), a navigation device, an MP3 player, and a digital camera. The first device 100 may be a wearable device that a user may wear. For example, the first device 100 may be a wristwatch, glasses, a ring, a bracelet, a necklace, or the like, but not limited thereto.

[0044] The first device 100 may be positioned in a service zone of the second device 200 and may exit the service zone. The service zone of the second device 200 means an area where the second device 200 may provide a service to a user or another device. For example, the service zone of the second device 200 may include an area where the second device 200 may provide a communication service, an area where the second device 200 may provide a content reproduction service, or the like.

[0045] When the first device 100 is positioned in the service zone of the second device 200, the first device 100 may perform communication with the second device 200. For example, the first device 100 may perform short-distance communication with the second device 200. Examples of the short-distance communication may include, but are not limited to, a wireless local area network (LAN) (e.g., Wi-Fi), near field communication (NFC), Bluetooth, Bluetooth Low Energy (BLE), ZigBee, Wi-Fi Direct (WFD), and ultra wideband (UWB). The first device 100 may be wiredly or wirelessly connected with the management server 300.

[0046] The first device 100 may request the second device 200 or the management server 300 for a recommendation item and may receive the recommendation item. In the present exemplary embodiment, the recommendation item

may be related to the content reproduced by the second device 200. For example, the recommendation item may include, but is not limited to, an application item, a resume item, an additional information item, and an advertisement item that correspond to the content reproduced by the second device 200.

[0047] The recommendation item may be configured of an image of the content, and link information or index information each of which is connected to the image, or may be configured in the form of an object for using a service.

[0048] Throughout the specification, the term ‘object for using a service’ indicates a user interface for using a service of a service provider. The object for using a service may be a user interface for using a service that is provided from a server or the service provider. For example, the object for using a service may include the user interface including an icon, text, an image, and link information, and description related to a function of the object.

[0049] The first device 100 may receive the object from the server and may use the service of the service provider by using the object. For example, by using the object, the first device 100 may obtain content from an application program in the first device 100, a data source, server, or content provider and may process the content. Also, the object may be a user interface corresponding to a package of services that are provided based on context information of the user (or the first device 100).

[0050] In the present exemplary embodiment, the object may not be installed in, or may not be executed by, the first device 100, but may be analyzed by a host program of the first device 100, so that the object may be displayed on a screen of the first device 100 and may be used by the user. The object may be a gadget but an example of the object is not limited thereto.

[0051] When the first device 100 exits the service zone of the second device 200, the first device 100 may display, on a screen, the recommendation item related to the content reproduced by the second device 200.

[0052] In the first device 100, a seamless sensing platform (SSP) may operate, separately from an application processor (AP). The first device 100 may connect sensors to a sensor hub of the SSP, and therefore may collect a plurality of pieces of sensing information and may recognize a status, without waking up the AP in a sleep mode. When a predetermined circumstance occurs, the sensor hub (e.g., an MCU) of the SSP wakes up the AP in the sleep mode. Each of the SSP and the AP may be implemented as hardware, software, or combination of hardware and software. The SSP will be described in detail with reference to FIG. 17.

[0053] The second device 200 may be a display device that reproduces content. In particular, the second device 200 may be a public device. Throughout the specification, the second device 200 may indicate, but is not limited to, a display device and a kiosk (e.g., a digital information display (DID) device or a large format display (LFD) device) that are available in public transportation (e.g., a bus, an airplane, a subway train, a commuter train, or the like), a movie screen device installed in a theater, and an electric signboard used in a sports complex.

[0054] The second device 200 may be connected with the first device 100 via the short-distance communication. Also, the second device 200 may perform wired or wireless communication with the management server 300.